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another 49.300 Sawt DM were spend; and for 1956 and 1957-work, 140.000 and 92.000 East DE respectively had been approved. The research project was among those ordered and paid for by AZRTRALAMY BUER FORSCHOOD & ZRTWOCKLUNG BEI DER STAATLICHEN PLANCOWNIS ION (Sereafter referred to as AZRTHALAMY) on behalf of 3.8.0. It is assumed that W.T.B.C. just wented a straight-atcording body for testing their "Seemagnotograph".

2. Messuring buoy ("Messbeje").

Designing and developing this buoy was ordered by Dr. BRUNS of S.H.D. The buoy was to serve as a casing for instruments measuring magnetism, current, and other unknown items. It is not known when project was started. This research project was among those ordered and paid paid for by LEXIRATIANT on behalf of Dr. BRUNS of S.H.D. In 1954 and 1955, 26,300 and 237,700 hast DK respectively were spent for the project; for 1956 and 1957 another 400,000 and 211,000 East DK respectively were approved.

3. Tide computer ("Geseitenrechenmaschine").

This machine had been built by an unidentified SOVADEE plant located near FOTEDAK. The machine was finished during the summer of 1955. In late 1955 it was installed in HOSTOCK VP-SEE headquarters building and has since been in operation. No information regarding the use made of the machine is known. Several attempts were made to call this device to other Redblock countries, but no orders have been received.

4. "Kreiselsextant".

25X1

This device could not be described nor was its purpose known It is assumed that designing and developing "Kreiselsextant" was done by YEB GERAKTE & ENGLERWEEK (formerly ASKEAI EORES) at TYLTOW. It is certain that RPT FURKWEEK KORPERIOK did not do it. For 1954 and 1955-work on the project, 39,500 and 80,000 East DM respectively were spent. Another 80,000 project, 39,500 and 80,000 East DM respectively were spent. Another 80,000 East DM respectively were spent. Another 80,000 East DM respectively were spent. On the project as a mong those argument ordered and paid for by LESTRALARY on behalf of 3.8.D.

5. Diver Bell ("Taucherdruckkasser").

Designing and developing a dx diver bell was one of herr WITTEARS's fevorite projects at 1.3.%. ABTRILUNG DRESDER. Fork in still unfinished. The bell was to be suitable for 200-mater waterdepth. It was to be equipped with magnete in order to have it firsty attached to a sunken ship's hull. The bell was also planned to be capable of horizontal movements along the bottom of the sea. Divers it inside the bell were to be capable of performance work outside the bell proper. The bell was for the new diver craft of type TAUCHER or TAUCHER-40 presently being developed.

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"Astronomisches Rechengereet".

Though originally ordered by ANT PUSE TACHAIR on behalf of S.H.D., research order for this device had been definitely cancelled in 1955 after 14,200 Seet DE had been spent for 1954-work on the project. However, this research project appeared on the 1956 research project list of AME FURR TROUBLE.

7. Anemometer with recorder ("Bindpfoil mit Ammeige").

This was to be used aboard ship: it was to indicate and record true wind direction. Do fire bad showed it's willingness to take over the designing and developing. Finally, RFT FURNARRA KORFERICK was induced into having some of their engineers work on the project on the basis of a socalled "Studienentwurf", see para 5 of ref. (a). The latter was to be finished by the end of 1956. Then, RYT PURKWERK KORPENICK will decide whether or not they can and will build it. This research project was among those ordered and said for by ARSTRALART on behalf of S.B.D. 20,000 Zast Dk had been approved for 1956-work on the project.

Oxygen meter ("Saurerstoffsonde 02").

Purpose of this gauge was to measure the percentage of exygen and the density film ("Dichte") of seawater at certain depths. The device was to be designed especially for deep-water operations. Designing and developing the device had begun at a.T.B.G. in BERLIE in 1955. A prototype device was scheduled to be ready for testing in 1956. In 1957, several such devices were scheduled to be ready for installation in 3 8.A.D. craft expected to participate in the Sussian expedition into "sorthers" waters. This research project was among those ordered and paid for by LABIRALANT on behalf of Dr. BRUMS of S.H.D. 50,000 East DM had been approved for 1956work on the project.

9. Temperature and salt meter ("Temperatur-& Salzgehaltsfuehler").

Purpose of this combined gauge was to measure the temperature of and percentage of salt in seawater at certain depths. The device was to be designed especially for deep-water mremus operations. Designing and developing the device had begun at F.T.B.G. in BERLIB in 1955. A prototype device was scheduled to be ready for testing in 1956. For 1957, several such devices were scheduled to be ready for installation in 3 S.B.B. oraft expected i to participate in the American expedition into "northern" waters. The research project was m among those ordered and paid for by MENTALLANT on behalf of Dr. BRUNG of S.B.D. 80,000 and 70,000 East DM respectively had been approved for 1956 and 1957-cork on the project.

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10. Current r meter ("In Dreibein webereinender aufgehaengte Strofmungemesser fuer Messungen dicht weber dem Meeresbeden").

As indicated by its German mass, this device was to consist of 3 current meters wounted, one above the other, on a tripod. The meters were spaced 2 to 3 meters apart. The divice was to be lowered from a ship down to the bottom of the sec. Designing and developing underway at \$250 in BERLIN was to be completed and a protectype device ready for testing in 1956. This research project was among those ordered and paid for by ARR-TRALART on behalf of S.H.D. 65,000 East DE had been approved for 1956—work on the project.

11. Remote-recording current meter and series current meter ("Fernregistrie-reader Stroemungsmesser & Derlenstroemungsmessed)
25X1

These are 2 different devices very similar to minimum aforementioned tripod-mounted combined correct meters. They were to be lowered from a ship and laid out on the sembottom or kept minut afloat at certain depths. They were to be connected to shore stations by cable for continuous recording ashore of measurements.

| cesigning and developing the devices was taking place and where them they were planned to be built. The 2 research projects were among those ordered and paid of by AMNTHALAMY on behalf of S.H.D. In 1954, 16,700 East DM had been spent for each project; in 1955, 64,800 and 45,200 East DM respectively; for 1956-work on the projects, DM 105,000 and 80,000 East DM respectively had been approved.

12. Blectrically-operated bucket-chain for taking seawater sabyles.

("Elektrische Serienmaschine zum Herunterlassen einer Serie von Russerschoepfern & Kippthermometern auf groessere Tiefen").

25x

for taking and estekeeping seawater samples at any wanted depth. Maximum depth of the chanin was unknown. Designing and developing the device has been completed at an unknown installation. One prototype device is being built at VEB KONSTRUKTIONE & ENTWICKLUMGEBUEND ROSTOCK. This research project was among those ordered and paid for by VP-SEE directly. 165,000 has been approved for 1956-work on the project.

13. Buckets for a taking seawater samples ("Wasserschoopfer 3,5 liter & WOHLENBERG Wasserschoopfer sur antheams von Wasserproben mit Schwebstoff in engbregenzten horisontalen Schichten").

These were 2 different devices both of them similar to the above except for the chain-mechanism. Although a total of 20,000 East DM had originally been approved for 1956-research-work on the 2 devices. Hesearch will not be carried out. They will be bought from an unidentified LEIPJIG firm, following conventional designs. It is rumored that attempts will be made to buy them in West-Germany where WOHLEMBERG, the original designer, is said to live. These 2 research projects had been put on 1956 VP-JEM research list however.

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14. Clockwork-type releaser ("Uhrwerkausloeseverrichtung").

This was to become a sub-unit for one of the aforementioned meters and gauges. The release mechanism was to be operated by a battery having an operational endurance of either 20, 30, or 60 days. RFT FURNARK KOEFERICK, had been approached to take over the research work, but refused to do so. It will probably be come by STRG at BEALIN. This research project was armong those ordered and paid for by AMPHALAMY on behalf of S.H.D. 22,100 mong those ordered and paid for by AMPHALAMY on behalf of S.H.D. 22,100 mang those ordered and paid for by AMPHALAMY on behalf of S.H.D. 22,100 mang those ordered and paid for by AMPHALAMY on behalf of S.H.D. 22,100 mang those ordered and paid for by AMPHALAMY on behalf of S.H.D. 22,100 mang those ordered and paid for 1955-work on the project and another 10,000 East

15. Lightehip type URU.

Designing and developing UNS-type lightship was a 1953 research project. It was cancelled in 1953 for lack of funds. The project has not been discussed again since then.

16. SPERLING-class craft.

These were "Seczeichenkontroll & Bereisungsboote" (buoy, beacon, and lighthouse inspection and maintenance tenders) especially designed for their duties by former 2.K.B. at MOLGAST. Three eraft of the class had been built by VOLKSWERYT STRALSUND in 1954 and have been in commission since then. They were between 16 and 18 18 meters long, very seaworthy, and equipped with "propane"-gas containers for replenishing gas containers of buoys and beacons.

17. Further S.H.D. research projects underway and/or planned.

A number of S.H.D. research pri projects underway and/or planned about had no information other them the money already spent or approved for them and allest of which were paid for and ordered by ARATHALARY on behalf of S.H.D. are as follows:

a. Truck-mounted and electrically-operated high-wind meter ("Elektris-ches mittels kruftfahrzeug transportables Hochenwindses-ezgerset").

In 1955 110,900 East DE had been spent for research as work on this project for 1956, another 535,000 East DE were approved; wost of the latter will be paid by EVP who were highly interested.

b. Cloude-altitude meter ("wolkenhoehenmesser").

Besides altitutde, the device was also to measure direction and thickness of clouds. In 1954 and 1955, 39,000 and 179,800 East DE respectively had been spent; for 1956, another 15,000 East DE were approved for research work on this project.

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c. Ex Underwater photometer ("Unterwasserphotometer").

In 1954 and 1955, 7,600 and 53,600 East DM respectively had been spent for research work on this project; for 1956 another 90,000 East DM were approved.

d. Eave recorder ("Meereswellenschreiber").

In 1954 and 1955, 8,700 and 32,100 East DM respectively had been spent for research work on the project; for x9 1956 and 1957, another 75,-000 and 21,000 East DM respectively were approved.

* Remote-recording sem-watergauge (Fernregistrierander Seepegel*).

The gauge was to be cable-connected to the shore for continuous recording ashore of measurements. In 1954 and 1955, 15,500 and 64,500 mast by respectively had been spent for research work on the project; for 1956 and 1957, another 95,000 and 15,000 mast DM respectively were approved.

f. Remote-recording fathometer ("Fernregistrierender Tiefensesser").

this was to become a component part of another device possible the above sea-water gauge. In 1955, 23,900 East DN had been spent for research work on the project; for 1956, another 10,000 East DN were approved.

g. Recording buoy ("Registrierboje").

This was to become a buoy-type recording sea-watergauge with no connection to shore. Otherwise, it very closely resembled the remoterecording sea-watergauge. For 1956 research work on this project, 10,000 has been approved.

16. Further research projects. S.H.D. was interested in.

Although not ordered by SHD interest was snown in the following projects shallow-water echo-sounding gear ("Echoflachot"), direction finder with visual presentation ("Sightfunkpeiler"), Geiger-counter for sea-bottom research fixuager ("Geigerzaehler fuer den Machweis der Verfrächtung strablender Keerner - radioaktiviert - am Meeresboden"), and a sinkable buoy ("Versenkbare Boie").

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